

Table 6- 2. CSO Control Alternatives Summary

	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6
Partial separation and storage						
Elliott Bay subbasin	14 miles of 12- to 84-inch sewers	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
South Lake Union subbasin	10 miles of 12- to 84-inch sewers	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Stormwater outfalls	4 to Elliott Bay, 1 to Lake Union	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
South Lake Union storage tank	8.6-MG with 10-mgd pump station	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
City of Seattle Phase 2						
Connect Phase 1 to Mercer Street tunnel	Not applicable	1,150 feet of 60-inch-diameter pipe				
Conveyance of CSO 175 flows	1,800 feet of 18-inch and 24-inch-diameter pipe					
Elliott West CSO control facility						
Influent pumping	72 mgd	90 mgd	120 mgd	120 mgd	90 mgd	120 mgd
Effluent pumping	Not applicable	135 mgd	200 mgd	200 mgd	Not applicable	Not applicable
CSO storage tank	8 MG storage	Not applicable	Not applicable	4 MG	Not applicable	Not applicable
CSO treatment	Not applicable	Floatables removal, disinfection/dechlorination			Not applicable	Not applicable
Outfalls						
Treated discharge (Elliott West outfall)	Not applicable	60 feet deep, plain end		150 feet deep, plain end	Not applicable	Not applicable
Untreated CSO (CSO outfall extension)	60 feet deep, plain end					
South Lake Union area CSO control facilities						
Pipelines	2,000 feet of 36-inch pipe	South Lake Union CSO pipeline, Lake Union tunnel CSO pipeline, Central Trunk CSO pipeline				
Diversion structures	Central trunk diversion struct.	Central Trunk diversion structure and Lake Union tunnel regulator				
Mercer Street tunnel facilities						
Tunnel storage volume	Not applicable	3.1 MG	7.1 MG	3.1 MG	20.5 MG	45.3 MG
Tunnel inside diameter	Not applicable	9.5 feet	14.5 feet	9.5 feet	24.5 feet	Twin 26 feet
Structures	Not applicable	East Portal drop structure and West Portal				
Elliott Avenue undercrossing	Not applicable	120 feet of 12-foot-diameter gravity pipe				
Denny area CSO control facilities						
Diversion structures	EBI control structure, system drain (84 inches, 140 feet) and Denny diversion structure					
Elliott West CSO pipeline	2,600 feet of 60-inch pipe	2,600 feet of 66-inch pipe				
Elliott West force main	Not applicable	2,600 feet of 72-inch-diameter forcemain			Not applicable	Not applicable